For Research Use Only

CoraLite® Plus 488-conjugated Phospho-Histone H3 (Ser10) Monoclonal antibody

Catalog Number:CL488-66863

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-66863

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
NM_003529

GeneID (NCBI):
8350

Full Name:
histone cluster 1, H3a

Calculated MW:
15 kDa

Observed MW:
15-17 kDa

Purification Method:
Protein G purification

CloneNo.:
4C7G2

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat

Background Information

Phospho-histone-H3 (PHH3) is a core histone protein, which in its phosphorylated state forms the principal constituents of eukaryotic chromatin, with histone H3 being phosphorylated at serine (Ser) 10 or Ser28 as well as its phosphorylation of Ser10 being strongly correlated with the late G2 to M-phase transition in mammalian mitotic cells. On the basis of previous research, a few cell line- and animal model-based researches have displayed an increase in phosphorylation of histone H3 at Ser10 (H3S10ph), the only histone marker that is involved in carcinogenesis and cellular transformation. Histone H3 phosphorylation on serine-10 is specific to mitosis and phosphorylated histone H3 (PHH3) proliferation markers (as counts defined per area or as indices defined per cell numbers) are increasingly being used to evaluate proliferation in various tumors.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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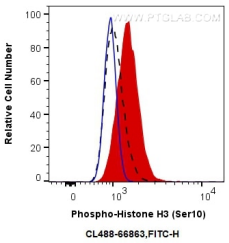
Selected Validation Data



1X10^6 HeLa cells untreated(dashed lines) or treated with nocodazole (red) were intracellularly stained with 0.5 ug CoraLite® Plus 488 Anti-Human Phospho-Histone H3 (Ser10) (CL488-66863, Clone:4C7G2), or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.